BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Renovation & Upgradation of Ambedkar Samudaya Bhavana in Siddartha nagr Ward No 16, BBMP, Bangalore

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRB 24-1 : Removing white wash or colour wash by steel brushing and / or scraping, sand papering and preparing wall surface smooth including repairs to scraches, cost of labour, complete as per specifications. Specification No.KBS.									
	(P.No.128 , I.No.16.1.1of PW,P & IWTD S.R 2018-19)									
	Ceiling	Sqm	1	1	13.84	14.54		201.23		
			1	1	12.54	20.74		260.08		
								461.31		
	Inside Wall									
			2	1	27.30		6.35	346.71		
			1	1	15.00		6.35	95.25		
			1	1	21.20		6.35	134.62		
	Deduction									
	D		1	-1	3.50		2.10	-7.35		
	W		1	-18	1.80		1.70	-55.08		
	V		1	-2	0.60		0.30	-0.36		
								513.79		
	Out Side Wall		1	1	63.50		6.95	441.33		
	Deduction									
	D		1	-1	3.50		2.10	-7.35		
	W		1	-18	1.80		1.70	-55.08		
	V		1	-2	0.60		0.30	-0.36		
								378.54		
							Say	**1353.64**	**9.72**	**13157.36**
2	Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and nealty dressed as per specifications									
	(P.No.5, I.No.2.1 of PW,P & IWTD S.R 2018-19)	**Cum**	1	1	15.00	8.00	0.20	24.00		
							Say	**24.00**	**268.92**	**6454.08**
3	KSRB -2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.	**Cum**								
	(P.No.5, I.No.2.3 of PW,P & IWTD S.R 2018-19)									
	For Footigs									
	F1		1	2	11.30	1.15	1.20	31.19		
	F2		1	2	7.40	1.15	1.20	20.42		
	C/C Length of Load Bearing Wall		1	1	5.70	0.75	0.75	3.21		
			1	6	1.50	0.75	0.75	5.06		
								59.88		
							Say	**59.90**	**322.92**	**19342.91**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 5.75 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification.	**Cum**								
	(P.No.12, I.No.4.3 of PW,P & IWTD S.R2018-19)									
	For Footigs									
	F1		1	2	11.30	1.15	0.15	5.90		
	F2		1	2	7.40	1.15	0.15	2.55		
	C/C Length of Load Bearing Wall		1	1	5.70	0.20	0.15	0.17		
			1	6	1.50	0.20	0.15	0.27		
								6.89		
							Say	**6.90**	**5510.16**	**38020.10**

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
5	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3.0 lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walla (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, structs, buttresses, string or lacing courses, parpets, coping, bed blocks, anchor, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specification. Specification No. KBS 4.1, 4.6 (P.No. 13/4.11)	**Cum**								
	(P.No.13, I.No.4.12 of PW,P & IWTD S.R 2018-19)									
	Ground Floor									
	Plinth Beam									
	PB (150 x 300mm)		1	2	12.25	0.15	0.30	1.10		
			1	3	6.05	0.15	0.30	0.82		
			1	6	1.50	0.15	0.30	0.41		
								2.32		
	Lintels Above									
	D1		1	2	1.20	0.15	0.1	0.04		
	D2		1	6	0.90	0.15	0.1	0.08		
			1	1	1.05	0.15	0.1	0.02		
	V		1	6	0.90	0.15	0.15	0.12		
								0.25		
	Roof Beam									
	B1 (150 x 300mm)		1	1	37.00	0.15	0.175	0.97		
								0.97		
	Roof Slab		1	1	12.6	6.600	0.15	12.47		
								12.47		
								16.02		
							Say	**16.10**	**6528.60**	**105110.46**
6	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of **beams,** beam hauncing cantilever girders, bressumers & **lintels** & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	**Sqm**								
	(P.No.16, I.No.4.34 of PW,P & IWTD S.R2018-19)									
	For Ground floor									
	Plinth Beam									
	PB (150 x 300mm)		1	4	12.25	--	0.3	14.70		
			1	6	6.05	--	0.3	10.89		
			1	12	1.50	--	0.3	5.40		
	Roof Beam									
	B1 (150 x 300mm)		1	2	37.00	--	0.175	12.95		
	Lintels Above									
	D1		1	2	2.4	--	0.1	0.48		
	Base		1	2	0.9	0.15	--	0.27		
	D2		1	6	1.8	--	0.1	1.08		
	Base		1	6	0.6	0.15	--	0.54		
	V		1	6	1.8	--	0.15	1.62		
	Base		1	6	0.6	0.15	--	0.54		
								48.47		
							Say	48.50	**315.36**	**15294.96**
7	Providing and removing **centering, shuttering,** strutting, propping etc., and removal of form work **for flat surface** such as suspended floors, **roofs, landings, balconies** and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.3									
	(P.No.15, I.No.4.30 of KPWD S.R 2018-19)									
	Roof Slab		1	1	12.60	6.60	--	83.16		
	Edge		1	2	12.60		0.15	3.78		
			1	2	6.60		0.15	1.98		
								88.92		
							Say	89.00	**475.20**	**42292.80**
8	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted **plain chajja 8.50 Cms** avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification.	**Sqm**								
	(P.No.14, I.No.4.19 of PW,P & IWTD S.R 2018-19)									
	Toilet									

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	D		1	2	0.90	0.30	--	1.54		
	V		1	6	0.60	0.30	--	1.08		
								1.62		
9	Providing and **removing centering,** shuttering, strutting, propping etc., for **chajjas**, corbels of all shapes & sizes, at all elevations & heights.						Say	1.70	**535.68**	**910.66**
	(P.No.16, I.No.4.37 of PW,P & IWTD S.R 2018-19)									
	Toilet									
	D		1	4	0.9	0.3	--	1.08		
	V		1	12	0.6	0.3	--	2.16		
								3.24		
10	Providing **TMT Steel reinforcement** for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. **FOR TMT Bars Fe- 500**						Say	3.30	**348.84**	**1151.17**
		Tonne								
	(P No.18 I.No.4.46.2 of KPWD S.R 2018-19)									
	For Toilet									
	For Plinth Beams **120 Kg/Cum**						120.00	278.91		
	For Lintel **120 Kg/Cum**						120.00	46.51		
	For Roof Beams 150 **Kg/Cum**						150.00	145.69		
	For Roof Slabs 90**Kg/Cum**						90.00	1122.66		
								1577.77		
								1.578		
							Say	1.58	**76643.28**	**121096.38**
11	Providing & Constructing Granite/ trap/basalt size stone Masonary in basement with Cement morter 1:8 edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two mtr apart in each course including cost of all materials, labour, curing complete as per specifications									
	(P.No.25, I.No.5.5of PW,P & IWTD S.R 2018-19)	**Cum**								
	Ground Floor									
	For First Course		1	2	13.00	0.60	0.60	9.36		
			1	2	5.30	0.60	0.60	3.82		
	For Second Course		1	2	12.85	0.45	0.45	5.20		
			1	2	5.45	0.45	0.45	2.21		
			1	1	5.70	0.45	0.45	1.15		
			1	6	1.50	0.45	0.45	1.82		
								25.56		
							Say	25.60	**5921.64**	**139750.70**
12	**Filling available excavated earth (excluding rock)** in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5m. Inluding cost of all labour complete as per speicifications.No.KBS 2.9	**Cum**								
	(P.No.7, I.No.2.10 of PW,P & IWTD S.R 2018-19)									
	For Footings Only 40% of Qty			--	--	--	--	23.96		
							Say	24.00	**217.08**	**5209.92**
13	**Providing and constructing Pre cast solid blocks with** Compressive strength not less than 35 kg/ sqm with cement morter 1:4 masonary (quion, Jamb, closer block) with solid concrete blockx of size **40 x 15 x 20 cms** confirming to IS 2185/1965 in super structures including cost of materials, labour charges, scaffolding, curing complete as per specifications.	**Sqm**								
	(P.No.27, I.No.5.26.2.1of KPWD S.R 2018-19)									
	Ground Floor									
	C/C Length of Load Bearing Wall		1	2	12.40	--	2.70	66.96		
			1	2	5.90		2.70	31.86		
			1	1	5.70		2.70	15.39		
								114.21		
	Deduction of openings.									
	D1		1	3	0.90	--	2.1	5.67		
	V		1	6	0.60		0.6	2.16		
								-7.83		
							Net Qty	106.38		
							Say	106.50	**997.92**	**106278.48**
								100.50		
14	Providing & constructing non load bearing walls cemect **concrete solid blocks** with compressive strength not less than 35 kg/sqm with cement morter 1:4 (jamb, closer blocks) with blocks of size **40X10X20**. (LXBXH) confirming to I.S. : 2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification.	**Sqm**								

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	(P.No.27, I.No.5.28 of KPWD S.R 2018-19)									
	Ground Floor									
	C/C Length of Non Load Bearing Wall (Partition Wall)		1	6	1.50	--	2.10	18.90		
	Deductions for openings									
	Openings		1	-6.00	0.90	--	2.10	-11.34		
								7.56		
							Say	7.60	875.88	6656.69
15	Providing 18mm thick cement plaster in single coat with cement mortor 1:3 to Brick masonary including rounding off corners wherver required smooth rendering,. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.116, I.No.15.15 of PW,P & IWTD S.R2018-19)	Sqm								
	For Out Side									
	Ground floor									
	Total Length For Walls		1	1	37.40	--	3.000	112.20		
	Total Qty of Chajja's		1	1	1.70			1.70		
								113.90		
	Deductions for openings									
	D	-0.5	1	2.00	0.90	--	2.10	-1.89		
	V	-0.5	1	6.00	0.60	--	1.20	-2.16		
							Net Qty.	109.85		
							Say	109.90	298.08	32758.99
16	Providing **18mm** thick cement plaster in single coat with cement mortor **1:4, to brick masonry** including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (**internal)** (P.No.116, I.No.15.16 &15.33 of KPWD S.R2018-19)	Sqm								
	Toilet									
	--									
	Long Wall		1	2	12.20	--	2.875	70.15		
	Short Wall		1	4	5.70	--	2.875	65.55		
	Wc		1	12	1.50	--	2.100	37.80		
			1	2	10.22	--	2.10	42.92		
	Total							216.42		
	Deduction									
	D1	-1	1	2.00	0.90	--	2.10	-3.78		
	D2	-1	1	6.00	0.75	--	2.10	-9.45		
	V	0.5	1	6.00	0.60	--	1.20	2.16		
								-11.07		
							Net Qty	205.35		
							Say	205.40	281.88	57898.15
17	Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to **ceiling** including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No. 116 I.No.15.21 & 15.33 of PW,P & IWTD S.R2018-19)									
	For ceiling	Sqm								
	Ground Floor									
			1	1	12.20	5.70	--	69.54		
								69.54		
							Say	69.00	253.80	17766.00
18	Providing INTEGRAL CRYSTALINE Waterproofing treatment to the sunken portion of toilets. Using Crystalline Slurry of approved make @ 1.40 kg per SQM in two coats (0.7 Kg per coat) confirming to ASTM S 1202 & DINV 18998 standards.	Sqm								
	(P.No.280 I.No.38.11 of KPWD S.R 2018-19)									
	Toilet Slab		1	1	12.2	5.7		69.5		
	Ambedkar Building		1	1	14.3	15.00		214.5		
			1	1	13.00	21.20		275.6		
								559.6	540.00	302205.60
19	Providing and fixing of factorymade 30 mm P.V.C door frame of size 50x47 mm with a wall thickness of 5 mm made out of extrued 5 mm rigid PVC foamsheet metered cut at cornwers & jointed 2 nos 150 mm long brackets of 15 x 15 mm MS Square tube, the entire door frame to be reinforced with 19 x 19 m square tube of 19 gauge. the door frame to be fixed to the wall using MS screws of 65 /80 mm size complete as per manufacturers specification& directions of Engineer in charge.	Sqm								
	(P.No.60, I.No.9.84 of KPWD S.R 2018-19)									
	Ground floor	D2		1	1	0.90	--	2.10	1.89	
				1	6	0.75	--	2.10	9.45	
								Say	11.34	505.44	5731.69

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
20	Providing & fixing 30mm thick factory made **rigid foam Panelled Door** Shutters made from M.S. tube of 19 gauge thickness, size 19 x 19mm for styles and 15 x 15mm for top and bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5 x 30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.									
	(P.No.60, I.No.9.83 of KPWD S.R 2018-19)									
	Ground floor									
	D2		1	1	0.90	--	2.10	0.90		
	D2		1	6	0.75	--	2.10	9.45		
								10.35		
							Say	10.40	**2999.16**	**31191.26**
21	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28 Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452 : 1990, 4nos, of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour, and HOM of machinery complete as per specifications.	Sqm								
	(P.No.34, I.No7.7of PW,P & IWTD S.R 2018-19)	Sqm								
	Ground floor									
	V		1	6	0.60	---	0.60	2.16		
								2.16		
							Say	2.20	**4209.84**	**9261.65**
22	KSRB 8.2 : Providing and fixing in position black cuddapah slab / Shahabad Slab/Thandur blue slab 4 cms thick for roofing laid to line and level over wooden rafters or RCC battens pointing exposed joints with cement mortar 1:4 including cost of materials, labour, curing complete as per specifications.									
	(P.No.48 I.No.8.2 of PW,P & IWTD S.R 2018-19)									
	Urian									
	For Side		1	5	1.20	1.50	--	9.00		
	Hand Wash		1	1	1.80	0.50	--	0.90		
	for Support		1	2	1.00	0.50	--	1.00		
	Kitchen		1	1	15.00	1.50	--	22.50		
			1	1	10.00	1.00	--	10.00		
								43.40		
							Say	43.40	**686.88**	**29810.59**
23	Providing **ceramic tiles** of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. size 30x30cms	Sqm								
	(P.No.108 I.No.14.36.1 of PW,P & IWTD S.R 2018-19)									
	Ground floor									
	Hand Wash		1	2	1.8	1.5	--	5.40		
			1	2	2.4	6.9	--	33.12		
			1	2	2.2	6.9	--	30.36		
	W/C		1	6	1.20	1.50	--	10.80		
	Skirting 15 %							11.95		
								91.63		
							Say	92.00	**1306.80**	**120225.60**
24	KSRB 14-17.2: Providing skirting, dado, rises of steps with **colour glazed tiles** on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm								

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Colour glazed tiles 15×15cms 6mm thick with border of size 15×15x6cms.									
	(P.No.108 I.No.14.41.1 of PW,P & IWTD S.R 2018-19)									
	Ground floor									
	Hand Wash		1	2	1.80	--	1.00	3.60		
	For WC		1	6	5.40	--	1.50	48.60		
	Kitchen		1	1	15.00		1.50	22.50		
								74.70		
	Deducations									
	D2		1	-6	0.75		1.00	-4.50		
								-4.50		
								70.20		
							Say	70.20	1372.68	96362.14
25	KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.									
	(P.No.119, I.No.15.49 of PW,P & IWTD S.R 2018-19)									
	Ground Floor									
	Qty same as inside plastering	Sqm		--	--	--	--	205.40		
	Deduct tiles & granite cladding area							-70.20		
	1 No 1 Inside Wall							513.79		
								648.99		
							Say	649.00	127.44	82708.56
26	KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on **Ceiling** surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.									
	(P.No.120, I.No.15.49& 15.50.2 of PW,P & IWTD S.R 2018-19)									
	Same as internal & wide item no 13									
	Ground Floor									
	Qty same as inside plastering	Sqm		--	--	--	--	70.00		
	Item No 1 Celling							4[illegible].31		
								[illegible].00		
							Say	70.00	110.00	7700.00
27	KSRB 15.16 : Water proof cement paint KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint with primer of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No.124/15.53.2) '--do with Primer--	Sqm								
	(P.No.120, I.No.15.53.2 of PW,P & IWTD S.R 2018-19)									
	Ground floor									
	Qty same as outside plastering			--	--	--	--	109.90		
	Item No 1 Outside Wall							378.54		
								488.44	110.16	53806.00
28	Providing & fixing of glazed 2 Track-2 Panel Sliding Windows made out of multi Chamered uPVC sections with TPV gaskets having Isolated drainage and reinforced witgh Galvanized iron profiles through out the window. The outer frame having a overall size of 60x45 mm with reinforcement of 1 mm thickness and sash with overall size of 39x58 mm with reinforcement of 1.5mm thickness. Glazing bead for fixing ofglass shall be of size 20x18mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame & sash shall be 2-2.2 mm.	Sqm								
	(P.No.308, I.No.38.44 of PW,P & IWTD S.R 2018-19)									
	windowds		1	18	1.80	1.70	--	37.80		
			1	2	1.20	0.90	--	42.92		
								80.72	5310.36	428673.50
										1896826.41
{B}	**PLUMBING AND SANITARY WORKS**									
	SANITARY FIXTURES									

No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
29	KSRB 11-3 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. (P.No.79, I.No.12.3 of KPWD S.R2018-19)	Each	1	8			Say	8.00 8.00	1437.48	11499.84
30	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80, I.No.12.7 of KPWD S.R2018-19)	Each	1	6			Say	6.00 6.00	3317.76	19906.56
31	Providing & fixing CI Naham trap of approved make confirming to ISI specification and construction of cistren in M 15 as per directions 1. 10.0 cms x 7.5 cms (P.No.90, I.No.12.113 of KPWD S.R 2018-19)	Each	1	8			Say	8.00 8.00	270.00	2160.00
32	Providing and fixing in position **CP bib cock** of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. (P.No.93, I.No.13.24 of KPWD S.R2018-19) All floors	Each	1	8			Say	8.00 8.00	186.84	1494.72
33	KSRB 11-11.4 : Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.83, I.No.12.26 of PW, P& IWTD SR 2018-19)	Nos	1	6				6.00	3262.68	19576.08
	INTERNAL SEWERAGE SYSTEM									
34	KSRB 13-9 : Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure ---- mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in									
	a) 75 mm dia (P.No.96, I.No.13.70.2 of KPWD S.R 2018-19)	M	1	1	30			30.00	352.08	10562.40
	b) 90 mm dia (P.No.96, I.No.13.70.3 of KPWD S.R 2018-19)	M	1	1	45			45.00	410.40	18468.00
	c) 110 mm dia (P.No.96, I.No.13.70.4 of KPWD S.R 2018-19)	M	1	1	35			35.00	486.00	17010.00
	INTERNAL WATER SUPPLY SYSTEM									
35	KSRB13 .85: Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.)									
	A)15mm dia pipe nominal OD pipes (P.No.99, I.No.13.86.1 of KPWD S.R2018-19)	M	1	1	15			15.00	222.48	3337.20
	B)20 mm dia pipe nominal OD pipes (P.No.99, I.No.13.86.2 of KPWD S.R 2018-19)	M	1	1	45			45.00	253.80	11421.00
36	KSRB 13-6.3-1: Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) NB including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/									
	a) of 20mm dia (P.No.99, I.No.13.33 of KPWD S.R 2018-19)	Nos	1	1	10			10.00	362.88	3628.80
	b) of 25mm dia (P.No.91, I.No.13.34 of KPWD S.R 2018-19)		1	1	10			10.00	484.92	4849.20

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
37	37.54 Supplying **water storage tanks made of virgin polymer (LLDPE)** with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications.									
	(P.No.265, I.No.37.58 of PW, P& IWTD SR 2018-19)	Nos								
	500 ltrs		1	1	2000			2000.00	6.48	12960.00
	EXTERNAL WATER SUPPLY									
38	KSRB13 87: Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete **(External works)**									
	20 mm dia pipe nominal OD pipes	Mtr	1	1	85			85.00	157.68	13402.80
	(P.No.99, I.No.13.87.2 of KPWD S R2018-19)									
	25 mm dia pipe nominal OD pipes	Mtr	1	1	45			45.00	193.32	8699.40
	(P.No.99, I.No.13.87.3 of KPWD S R 2018-19)									
	EXTERNAL SEWERAGE SYSTEM									
39	KSRB 13-9 : Providing and fixing to wall, ceiling and floor , **high density** polyethylene pipes **6.00 kgf /sqcm working pressure 110 mm** outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in									
	b) 110 mm dia	Mtr	1	1	45			45.00	253.80	11421.00
	(P.No.96, I.No.13.71 of KPWD S R2018-19)									
40	Providing stone ware gully trap of approved quality and fixing in C C 1:2:4 and plastering with C M 1:3 where ever necessary (Rate including cost of all materials, fixtures and lead)									
	(P.No.90, I.No.12.112 of KPWD S.R 2018-19)	Each								
	Size. 15 cm x 10 cm		1	1	15			15.00	205.20	3078.00
41	KSRB 12-8.1 : Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R C C top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.									
	(P.No.73, I.No.11.50.2 of KPWD S.R 2018-19)	Each	1	3	1			3.00	9169.20	27507.60
										200982.60
	{C} ELECTRICAL WORK	L/S	1	1	1.00			1.00	1000000.00	1000000.00
										1000000.00
	{D} **Bore Well**									
42	**Geophysical investigation** of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,(Issue rate as on date 02/05/2019 It.13.04)	No	1					1.00	3768.00	3768.00
43	**Sinking borewell of 165 mm** dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap ect.) (Issue rate as on date 02/05/2019 It.13.01)									
	0 to 50 m	Rmt	1		50.00			50.00	347.00	17350.00
	50 to 100 m	Rmt	1		50.00			50.00	442.00	22100.00
	100 to 150 m	Rmt	1		50.00			50.00	456.00	22800.00
	150 to 200 m	Rmt	1		50.00			50.00	536.00	26800.00

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	200 to 250 m	Rmt	1		50.00			50.00	634.00	31700.00
	250 to 300 m	Rmt	1		50.00			50.00	700.00	35000.00
	300 to 350 m	Rmt	1		50.00			50.00	825.00	41250.00
	350 to 400 m	Rmt	1		50.00			50.00	900.00	45000.00
	400 to 420 m	Rmt	1		20.00			20.00	1129.00	22580.00
44	Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)	Rmt	2		6.00			12.00	2600.00	31200.00
45	Supply of ISI Mark **175mm** nominal Bore, Plain end **steel casing Pipe**-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking. Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. (Page No.III,It no.84)PRED SR 2012-13.	Rmt	1		30.00			30.00	1325.00	39750.00
46	Providing **175mm Dia M.S. Collar** (P.No.iii,I.No.86) PRED SR 2012-13	No	5					5.00	150.00	750.00
47	Providing **175mm dia Bore Cap** CE (M) (P.No.iii,I.No.85) PRED SR 2012-13	No	1					1.00	100.00	100.00
48	**Atalanta** suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)** (Pg No. XLI. Sl.no.29) KPWD SR-2018-19	No	1					1.00	49955.00	49955.00
49	Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.									
	Basic rate	388.00								
	A.W @ 6%	23.28								
	Total	411.28								
		Rmt	1		370.00			370.00	411.28	152174.00
50	Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (PWD Ele SR 2014-15,P-12/It-2.10.3)									
	Add 5mts for Switching	Rmt	2		375.00			750.00	126.70	95025.00
51	Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)									
	Basic rate	1269								
	A.W @ 6%	76.14								
	Total	1345.14								
		No	1					1.00	1345.14	1345.00
52	Spplying and fixing **50mm GI Union**.(PWD SR 2016-17,P-XXXIX)	No	1					1.00	223.70	224.00
53	Spplying and fixing **50mm GI Elbow**.(PWD SR 2016-17,P-XXXIX)	No	1					1.00	111.80	112.00
54	Spplying and fixing **50mm GI Nipple**.(PWD SR 2016-17,P-XXXIX)	No	1					1.00	104.30	104.00
55	Spplying and fixing **50mm GI Hose colleres**(PWD SR 2016-17,P-XXXIX)	No	62					62.00	103.00	6386.00

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
56	Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / 1 no. 6.6.6 KPWD ELE SR 2019-20	No	1					1.00	175.20	175.00
57	Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 (PWD Ele SR 2019-20,P-47/Sl no.6.16.6) 40-63 Amps	No	1					1.00	2374.00	2374.00
58	Supplying of **TPST with rewirable porcelain** channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2019-20,P-44,It-6.5.1)	No	1					1.00	1800.00	1800.00
59	Supplying and fixing **LED type panel board** indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2019-20,p-48,Sl no.6.36)	No	1					1.00	430.00	430.00
60	Suppling fully automatic **star delta starter** unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2019-20,p-44,Sl no.-6.2.1)	No	1					1.00	6400.00	6400.00
61	Supplying and fixing **single phase preventer** using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2019-20,p-44/Sl no.6.3)	No	1					1.00	745.00	745.00
62	**Wiring for lighting/power circuit** using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-6,It-2.5.4(d)	Mtrs	1		20.00			20.00	45.00	900.00
63	Supplying fixing and wiring **heavy duty low voltage capacitors** conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2019-20,p-48/Sl no.6.35)	No	4					4.00	400.00	1600.00
64	Supplying, fixing, wiring, **earth electrode** for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-55,Sl no.7.1)	No	1					1.00	2999.70	3000.00
65	**Digging of trench** of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-62,It-7.9.2) hard soil	Mtrs	1		8.00			8.00	102.00	816.00
66	Supplying laying **1.1 KV class LT UG cable** having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2014-15,p-55,It-7.4.4)	Mtrs	1		10.00			10.00	150.00	1500.00
67	**Labour charge for laying 1.1 KV class UG cable** in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR2019-20,p-61,It-7.8.1)	No	1		25.00			25.00	11.88	297.00

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Supplying and fixing class-A(medium duty) **GI pipe wall** thickness not less then 3.25mm **on pole/wall/drain** crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-62,lt-7.12.1)									
		Rmt	1		2.00			2.00	335.00	670.00
69	Supplying and fixing **LT cast iron pot heads** suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-62,lt-7.13.2)									
		No	1					1.00	270.00	270.00
70	Supplying and fixing **porcelain fuse channel** with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-45,lt-6.7.3)									
		No	3					3.00	227.00	681.00
71	**Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (KPWD SR 2018-19, P-140, lt 18.47)									
	Basic rate	899.00								
	A.W @ 6%	53.94								
	Total	**952.94**								
	Main line	Cum	1		277.00	0.45	0.20	24.93		
	Distribution(277/10=No's)		2		10.00	0.45	0.20	1.80		
								26.73	952.94	25472.00
72	**Earthwork excavation** for foundation of buildings, **water supply**, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (KPWD SR 2018-19, P-6, lt-2.4)									
	Basic rate	449.00								
	A.W @ 6%	26.94								
	Total	**475.94**								
	Main line	Cum	1		277.00	0.45	0.30	37.4[illegible]5		
			2		10.00	0.45	0.30	2.70		
								40.10	475.94	19083.00
73	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, lt-13.87.6)									
	Basic rate	432.00								
	A.W @ 6%	25.92								
	Total	**457.92**								
	Main line	Mtr	1		277.00			277.00		
								277.00	457.92	126844.00
74	Making connection of **G.I.distribution** branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications. (P.No.93/ I.No. 13.20 of KPWD SR 2018-19)									
	Basic rate	483.00								
	A.W @ 6%	28.98								
	Total	**511.98**								
	Distribution(0/10=No's)	Each	2					2.00	511.98	1024.00
75	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, lt-13.85.2)									
	Basic rate	157.00								
	A.W @ 6%	9.42								
	Total	**166.42**								
	Distribution line	Mtr	2		10.00			20.00		
	Tap Connection		2		1.00			2.00		

Sl No	Description of work	Unit	No	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
								22.00	166.42	3661.00
76	Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.67 (KPWD SR 2018-19, P-95, It-13.67)									
	Basic rate	129.00								
	A.W @ 6%	7.74								
	Total	**136.74**								
	for other Purposes	Mtr	1		160.00			160.00	136.74	21878.00
								160.00		
77	KSRB 2-4 : **Refilling available around earth pipe lines**,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, it-2.11)									
	Basic rate	121.00								
	A.W @ 6%	7.26								
	Total	**128.26**								
	70% of Qty Vide item No.31	Cum						28.97	128.26	3600.00
78	**Loading and unloading** of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
	Item No:-17.1 Loading	57.00								
	Conveying for 16km	40.96								
	Total	97.96						38.76		
	Balance Qty Vide item No. 30+ 30% of 31 item	Cum						38.76	97.96	3797.00
79	KSRB 2-4 : Providing and fixing in position **brass gate valve** with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)									
	Basic rate	1739.00								
	A.W @ 6%	104.34								
	Total	**1843.34**								
	For Main Line	Each	1					1.00	1843.34	1843.00
80	KSRB13-6.2-1 : Providing and fixing in position **brass stop cock** of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Pg No:-93/I.No:-13.26 of KPWD SR 2018-19 2018-19)									
	Basic rate	141.00								
	A.W @ 6%	8.46								
	Total	**149.46**								
	Tap Connection	Each	2					2.00	149.46	299.00

Sl No	Description of work	Uni			Dimensions			Quantity	Rate in Rs.	Amount in Rs.
					L	B	D			
80	KSRB 4-1.3 : Providing and laying in position **plain cement** concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3 of KPWD SR 2018-19)									
	Basic rate	5102.0			277			18.70		
	A.W @ 6%	306.12								
	Total	**5408.12**								
	Main line	Cum	1		207.00	0.45	0.15	13.97		
	Distribution(0/10=No's)		2		10.00	0.45	0.15	1.35		
								15.32	5408.12	82866.00
								20.05		1084119.00
81	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for foundations & sub-structure works with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) (P.No.18, I.No. 4.48 of KPWD SR 2018-19)									
	Basic rate	5444.0			277			18.70		
	A.W @ 6%	326.64								
	Total	**5770.64**								
	Main line	Cum	1		207.00	0.45	0.15	13.97		
			2		10.00	0.45	0.15	1.35		
								15.32	5770.64	88421.00
								20.05		1156837.00
82	BESCOM deposit Charges and miscellaneous	No	1.00					1.00	12000.00	12000.00
								1110738.01		10,13,279.00
								4808547.01	**Sub Total**	42,08,476.53
								240427.35	**ADD 5 % TP**	2,10,423.83
								530276.92	**ADD 12 % GST**	5,30,268.04
									Add 1 % PMC Charges	50,000.00
								748.71	**MISCELLANEOUS & Rounding Off**	831.60
									Grand Total	50,00,000.00

CERTIFICATE

1 **Certified that this estimate is prepared based on KPWD SR of Bangalore Circle for the year 2018-19 ,ESR 2019-20 & prevailing market rates for most Economical & safe way of executing the work as per the design and drawings, Quantities & Estimates submitted by the Architect**

2 **Certificate that, the work spot has been inspected by me & prepared the estimate is most economical way of Excuting the work**

Asst Engineer
Ward-16
BBMP

Asst Exec Engineer
Yeshwanthpura sub Division
BBMP

Exec. Engineer
RR Nagar Division
BBMP

: 287 ದಿನಾಂಕ: 17/02/2020

50 lakhs (fifty lakhs only)

ಮಾಡಲು ಪಟ್ಟಿ ಅನುಮತಿ ನೀಡಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ.72
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

TECHNICAL SANCTION

Rs: 50,00,000/- (Rs Fifty lakhs only) is accorded under the head: P - 3292

By CE(R.R.N.) P.N. 154-155

Registered as CE (R.R.N) No: 597/19-20 subject to conditions contained in enclosed memo No: 597/19-20 Date. 25/2/2020

TA, CE (R.R.N.)